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(74) Agent: CHINA PATENT AGENT (H.K.) LTD.; 22/F, Great Eagle Centre, 23 Harbour Road, Wanchai, Hong Kong (CN).

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(71) Applicant (for all designated States except US): INTEL CORPORATION [US/US]; 2200 Mission College Blvd., Santa Clara, CA 95052 (US).

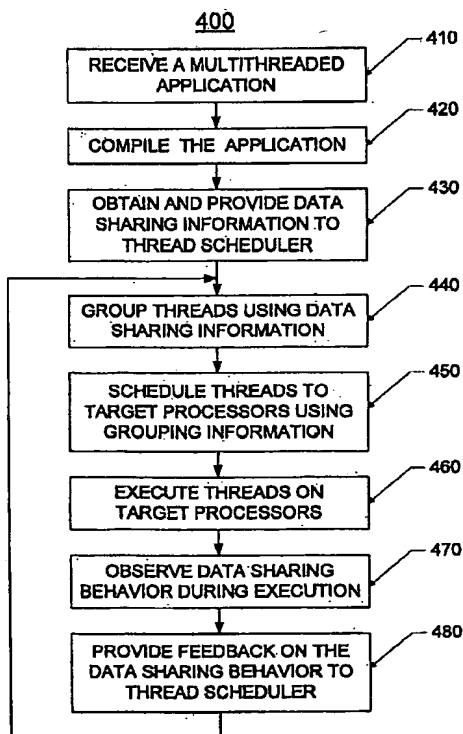
(72) Inventors; and

(75) Inventors/Applicants (for US only): LI, Wenlong [CN/CN]; Room 18-4-502, Tiantongyuan West 2 District, Changping District, Beijing 100043 (CN). LI, Eric, Q. [CN/CN]; Room 3702, #4 North of Xibahe, Chaoyang

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(54) Title: THREAD SCHEDULING ON MULTIPROCESSOR SYSTEMS



(57) Abstract: According to embodiments of the subject matter disclosed in this application, a compiler in a multiprocessor system may compile a received multithreaded application, analyze data sharing behavior among multiple threads of the multiprocessor application, and provide such information to a thread schedule in the multiprocessor system. Threads that share data frequently may be grouped together based on the data sharing information provided by the compiler, and at run time, the thread scheduler may schedule threads in the same group to processors that are in proximity to each other electronically. Additionally, a feedback module may collect information on data sharing behavior among threads during execution and feedback such information to the thread scheduler. The thread scheduler may use the feedback information to regroup and reschedule the threads at the next available scheduling time.

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